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Job No.: CECTC-JCP-SWD-2014-15 Date: 05.03.2014

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.
Name of Work : Construction of Bridge over storm water drain at 12th K Main Road, Muthyala Nagar in JP Park Ward No.17
Sample Identification : 10mm, 12mm, 16mm,20mm, 25mm TMT Fe 415 Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 05.03.2014

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 415	10	0.621	498	526	16.0
2	Fe 415	12	0.889	510	539	19.0
3	Fe 415	16	1.54	539	550	20.0
4	Fe 415	20	2.460	557	578	22.0
5	Fe 415	25	3.850	578	603	23.0

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Job No.: CECTC-JCP-2014-15 Date: 10.03.2014

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Rajarajeshwarinagara Division, BBMP Bangalore.
AGENCY	:	**Sri.J.C.Prakash,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Bridge over Storm Water Drain at 12th K Main road, Muthyala Nagar in JP Park Ward No.17, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	320 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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Job No.: CECTC-JCP-2014-15 Date : 10.03.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Rajarajeshwarinagara Division, BBMP Bangalore.

Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.

Name of Work : Construction of Bridge over Storm Water Drain at 12th K Main road, Muthyala Nagar in JP Park Ward No.17, BBMP, Bangalore.

Date of Testing : 10.03.2014

Material : Sand Total Wt. of Aggregates **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	5.20	5.20	94.8	90-100
2.36	125	8.33	13.53	86.5	75-100
1.18	203	13.53	27.07	72.9	55-90
600 Micron	232	15.47	42.53	57.5	35-59
300 Micron	310	20.67	63.20	36.8	8-30
150 Micron	425	28.33	91.53	8.5	0-10

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Job No.: CECTC-JCP-2014-15 Date : 10.03.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Rajarajeshwarinagara Division, BBMP Bangalore.
Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.
Name of Work : Construction of Bridge over Storm Water Drain at 12th K Main road, Muthyala Nagar in JP Park Ward No.17, BBMP, Bangalore.
Date of Testing : 10.03.2014
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	510	3.40	3.40	96.60	95-100
20	8563	57.09	60.49	39.51	30-70
10	3565	23.77	84.25	15.75	10-35
4.75	1698	11.32	95.57	4.43	0-5

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Job No.: CECTC-JCP-2014-15 Date : 10.03.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Rajarajeshwarinagara Division, BBMP Bangalore.

Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.

Name of Work : Construction of Bridge over Storm Water Drain at 12th K Main road, Muthyala Nagar in JP Park Ward No.17, BBMP, Bangalore.

Date of Testing : 10.03.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	198	4.0	4.0	96.0	95-100
10	2745	54.9	58.9	41.1	25-55
4.75	1865	37.3	96.2	3.8	0-10

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 17.12.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at 12th K main Road, Muthyala Nagar in JP Park Ward No.17
Location : Approach Slab
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{30}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.11.2014	17.12.2014	8.123	752.3	33.44
2	19.11.2014	17.12.2014	8.165	732.6	32.56
3	19.11.2014	17.12.2014	8.203	741.2	32.94

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 22.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at 12th Main Road Muthyala Nagar in JP Park Ward No.17
Location : Open Foundation
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{35}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.04.2014	22.05.2014	8.214	852.3	37.88
2	24.04.2014	22.05.2014	8.236	848.9	37.73
3	24.04.2014	22.05.2014	8.295	832.2	36.99

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 13.08.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.

Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.

Name of the work : Construction of Bridge over Strom Water Drain at 12th K Main Road Muthyala Nagar in JP Park Ward No.17

Location :Super structure

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{35}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2014	13.08.2014	8.254	839.6	37.32
2	16.07.2014	13.08.2014	8.236	874.2	38.85
3	16.07.2014	13.08.2014	8.241	852.1	37.87

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 11.07.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at 12th K Main Road Muthyala Nagar in JP Park Ward No.17
Location : Super Structure
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{35}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.06.2014	11.07.2014	8.132	836.9	37.20
2	13.06.2014	11.07.2014	8.154	841.2	37.39
3	13.06.2014	11.07.2014	8.132	853.2	37.92

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 05.06.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at 12th K Main Road Muthyala Nagar in JP Park Ward No.17
Location : Open Foundation
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{35}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.05.2014	05.06.2014	8.213	836.5	37.18
2	08.05.2014	05.06.2014	8.265	855.2	38.01
3	08.05.2014	05.06.2014	8.241	821.4	36.51

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Job No.: CECTC-JCP-W.O-17-2014-15

Date: 01.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.

Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.

Name of the work : Construction of Bridge over Strom Water Drain at 12th K Main Road Muthyala Nagar in JP Park Ward No.17

Location : Open Foundation

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{35}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.04.2014	01.05.2014	8.259	863.9	38.40
2	03.04.2014	01.05.2014	8.232	857.9	38.13
3	03.04.2014	01.05.2014	8.241	884.2	39.30

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Job No.: CECTC-JCP-SWD-2015-16 Date: 17.12.2014

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Contractor : **Sri. J.C.Prakash,** Contractor, Bangalore.
Name of the work : Construction of Bridge over Storm Water Drain at 12th K Main Road, Muthyala Nagara in JP Park Ward No.17, BBMP, Bangalore.
Sample ID : Reinforced Cement Concrete- Approach Slab
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{30}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.11.2014	17.12.2014	8.203	725.6	32.25
2	19.11.2014	17.12.2014	8.215	709.8	31.55
3	19.11.2014	17.12.2014	8.245	687.5	30.56

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